

ABSTRACT

5 An electrical switch for connecting and breaking a circuit including a
connecting and breaking mechanism for connecting and breaking the circuit
provided with at least a set of movable contacts and stationary contacts; a
electromagnetism drive mechanism for controlling the contacts to be actuated so
as to realize closed circuit; a housing for accommodating the movable contact and
stationary contact; an arc-extinguishing mechanism disposed in the housing and
10 corresponded to the movable and stationary contact; a case connected to a base
for accommodating the electromagnetism drive mechanism; a bedplate associated
with the case; and a holding mechanism disposed on the bedplate for holding the
contacts to connect the circuit, the electromagnetic holding mechanism is
electromagnetic and has a set of electromagnetic attracting mechanism in which
15 the movable iron core is made to be a pothook or a baffle mechanism, the movable
iron core is attracted so that the pothook or baffle keeps the switch closed by
means of hitching or ramming the movable bolt when the electromagnetic
attracting mechanism is powered on. The electrical switch has a structure in which
it has a breakaway mechanism using winding, in which the remanence being small
20 and the feedback force being large and the action of the limiting current being rapid,
it can break the large short current as air switch.

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